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But, oh! let all be taught from Butler's That wit, and pride, are always danger-
 fate, ous things,
 Who hope to make their fortune by the And little faith is due to courts and
 great, kings.

DISCOVERIES AND IMPROVEMENTS, IN ARTS, MANU-
 FACTURES, AND AGRICULTURE.

Specification of the Patent granted to John Hives, of Holbeck, in the parish of Leeds, in the County of York, Linen-manufacturer; for a machine for hackling or dressing Hemp, Flax, and other materials.

Dated, August 12, 1811.

ON the axis are fixed two wood or metal rims or bearers, about fifteen inches diameter, more or less, according to the length of the flax or hemp to be dressed. On the circumference of the rims or bearers are fixed four cross rails; on each of the cross rails are fixed two or more hackles, according to the number of operations the flax or hemp is required to pass. To the rim or bearer are also fixed four, back-boards, each of which may be raised or lowered by the screws, so as to adjust the back boards to the height required for working the flax or hemp upon the pins of the hackles. The axis, by the two cranks and the two levers, gives motion to two levers on which is fixed the holder rail. The holder rail drawn to a scale of an eighth of an inch to an inch, on which are fixed four smooth plates of thin iron, turned up about three inches at the front to receive the holders, packed a sufficient height from the rail to allow the holders to pass freely. A motion is given to the pulley, on the crank axis, which may make about one hundred revolutions in a minute, and by a pinion or nut gives motion to the stud wheel, and by it to the

wheel on the axis, which makes one revolution for four of the crank. The crank by the levers raises the holder rail about five inches during the time that the hackle passes under it; and falls it immediately after the hackle has passed it, which gives the flax or hemp a stroke upon the hackle, and makes the points of the hackle-pins pierce the fibres which are split by the continued motion of the hackle. The flax or hemp is laid straight across the lower part of the holder, between the screws, upon which the top part of the holder is laid, and screwed tight. The holder thus filled with about six or eight ounces of flax or hemp, is put into the slide on the holder rail, over the set of coarser hackles; when the flax or hemp is sufficiently cut or worked on one side, the boy who attends the machines turns the holder to the other, and replaces it in the slide, and in the same manner works it on the finer hackles.*

Specification of the patent granted to Robert Goswell Giles, of the city of London, Merchant; for an invention of a Cap or Cowl of a new construction, to be placed on the tops of Chimneys.

Dated, February 6, 1812.

The shape of the cap is that of a cylinder, open at both ends: the

* A plate, describing this machine, is given in the Repertory of Arts, &c., No. CXXI., June, 1812.